

Date: Sun, 5 Sep 93 04:30:07 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1049
To: Info-Hams

Info-Hams Digest Sun, 5 Sep 93 Volume 93 : Issue 1049

Today's Topics:

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 ? for 40 M folks, etc...
 ARRL and other ham scholarships?
 Cleveland Airshow Freqs
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 Interesting amateur subject report on CNN
 Radio Shack HTXs
 VK2SG RTTY DX Notes, 3 September
 Wanted: Montana Sked
 Wanted: Montana Skeds

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sun, 5 Sep 1993 02:14:45 GMT
From: mcsun!sun4nl!relay.philips.nl!philica!geertj@uunet.uu.net
Subject: 37749
To: info-hams@ucsd.edu

palmer@med.wcc.govt.nz writes:

>I did the exam today and I can't match up a few answers

>Q 80. A moving coil meter responds to :-
>

- > A. the peak value of the current passing through it.
- > B. the RMS value of the current passing through it.
- > C. the average value of the current passing through it.
- > D. the square of the current passing through it.

>(It doesn't say AMMETER but the answers talk about current. Have they forgotten something?)

A moving coil meter exists of a magnet (fixed) and a coil that can move, to which the meter is connected. If _current_ flow through the coil, magnetism is formed, and the resulting torque moves the meter. You should read your text book on this! A moving coil meter works on current per definition; there is a fundamental physical link between current and magnetism. Therefore, your comment looks valid, but unnecessary.

Back to the answers. How far the meter goes depends on the force the magnetism makes, and thus on the current. There are springs in there that 'push the meter back'. To what exactly reacts the meter?

- A. is invalid because there is no peak detection mechanism. Think of a 1:100 pulse of current; will the meter go out as far as constant current? It won't, therefore, A is false.
- B. The RMS value (Root-Mean-Square) describes what a current would do in a resistor (amount of heat). Think of an AC current like a 1mA square wave, 60 Hz; it will generate heat in a resistor if it's positive or negative at a certain time. However, During the negative cycles, the force from the coil will be negative, so a meter won't move at all. Therefore, B is false.
- D. is false because the force is linear with the current. They're trying to pull your leg here; square scales are only used on meters that use heat to measure current (I forgot about the English term for those meters, sorry)
- C. Imagine a 1:1 square wave of a 1mA current (on-off). The force from the coil will be half, and the deviation of the meter, therefore, will be half. The average current, of course, is half too. Therefore, C is correct.

>Q71. The reactance of a 0.1mH inductor at a frequency of 3.5MHz is approx :-

- >
- > A. 2.199 ohms
- > B. 2 199 ohms
- > C. 219 900 ohms
- > D. 2 199 000 ohms

>(Notice they used a space instead of a ,)

$X_L = 2 \times \pi \times f \times L = 2199 \text{ ohms}$. Therefore, B is correct (don't people in NZ use the dot where Europeans use a comma?)

Again, this is in your text book.

>Q21 An in-line AWR meter operates by sensing:-
>
> A. the characteristic impedance of the line.
> B. the transmitter output impedance
> C. the line voltage and the line current
> D. the square of the line current

I could not find AWR meter when I looked it up, I cannot help here
Can someone describe what it is?

John, even if you passed, I think it wouldn't hurt if you check in the
textbooks once a while. That's not a shame; I find that, after I passed
11 years ago, I incidentally have to look things up while experimenting.
Things like the impedance of an inductor, however, should be trivial
for you. Don't give up!

73, Geert Jan PE1HZG

Date: Fri, 3 Sep 93 16:01:35 GMT
From: butch!rapnet!news@uunet.uu.net
Subject: ? for 40 M folks, etc...
To: info-hams@ucsd.edu

In article <CCqzMt.B0o@spk.hp.com> depaul@spk.hp.com (Marc DePaul) writes:
>From: depaul@spk.hp.com (Marc DePaul)
>Subject: ? for 40 M folks, etc...
>Date: Thu, 2 Sep 1993 22:25:40 GMT

>Hello there.

>Do any of you have any antenna or RX schemes to reduce the awful noise
>on 40 M. Yes, in the winter it's quieter, but still the noise is there.
>Is there a Polomar loop, or something you can buy to quiet it down?
>I hear ZL's early in the night over here and would like to hear them better,
>along with my East Coast friend.

>I use a vertical, but my 560 foot loop also is having noise problems.

Hi Marc! Good Grief...a vertical, though a good DX antenna due to its low
angle of radiation, will pick up more man-made noise than anything you can
use. And how does a 560-foot loop relate to 40m? Try a version of the
diamond-shaped sloped loop in the ARRL Antenna Compendium. It works well
during the grey-line time, but a full wave delta loop seems to work as

well. Put the apex up...don't put it down as some of the popular DX books say...all that does is fry earthworms.

>At present, I turn the RF gain down and click on my DSP kit, but still...

Gee, if that's the DSP kit that I saw at the NE ARRL Convention, it should do a great job of cleaning up signals....but you still need to do some antenna work so that the other guy can hear you. I have seen phased verticals used to get some directivity on 40m....but it would be better to get a flatside beam to get away from the noise...just operate CW <G>

--Joel - KC1SG--

Date: Sun, 5 Sep 1993 05:30:35 GMT
From: usc!elroy.jpl.nasa.gov!avdms8.msfc.nasa.gov!europa.eng.gtefsd.com!
howland.reston.ans.net!agate!netsys!pagesat!indirect.com!nu7i@network.ucsd.edu
Subject: ARRL and other ham scholarships?
To: info-hams@ucsd.edu

Hello to all users on this group. I am a blind ham at Arizona State University majoring in computer information systems. Does the arrl or any other ham organizations have scholarships for which I could apply? I could then obtain some more adaptive equipment. Thanks and 73.

Date: 5 Sep 1993 02:12:51 GMT
From: usc!howland.reston.ans.net!usenet.ins.cwru.edu!cleveland.Freenet.Edu!
aa813@network.ucsd.edu
Subject: Cleveland Airshow Freqs
To: info-hams@ucsd.edu

The following was posted on Cleveland HamNet:

MONITORING AIR SHOWS

If you have ever been to an air show then you know the thrill of excitement as the pilots show off there skills, but you could be missing out on the ultimate thrill, that is actually monitoring the pilots and all of the communications that go with what goes on around an air show. The following frequencies have been compiled from various sources including monitoring times and

popular communications, most all have been confirmed.

U.S.N. BLUE ANGELS: ground support 121.90
nbfm rpt. 142.025 in/out 142.625
common airshow 123.40
maintenance ch.10 143.60
air to air 241.40 250.80 251.60 275.35
360.40 384.40 395.90 391.90

U.S.A.F. THUNDERBIRDS operations 120.45
common airshow 123.40
air-air tactical 140.40 141.85
air to air 236.60
solo 5-6 236.55 241.40 273.50
283.50
team leader 250.85
air to air 294.70 322.30 322.60
air-air tactical 394.0 382.90
ground support nbfm 413.025

U.S.A. GOLDEN KNIGHTS operations 32.30
air coordination 123.40
primary 42.35

CANADIAN SNOWBIRDS ch.1 275.80 ch.2 295.60 ch.3
310.80
ch.4 227.60 ch.5 243.40 ch.6
240.50
ch.7 378.50 ch.8 266.30 ch.9
294.50
ch.10 322.80 ch.11 245.70 ch.12
316.50
ch.13 344.50 ch.14 356.60 ch.15
236.60
ch.16 283.90 ch.17 363.80 ch.18
289.40
ch.19 245.0 ch.20 239.80

NONMILITARY FLIGHT TEAMS common airshow 123.40 123.45
showtime control 126.40

Brazilian A.F. 130.55 130.655 132.25

HTH

Date: 4 Sep 1993 16:53:53 GMT
From: swrinde!gatech!howland.reston.ans.net!darwin.sura.net!udel!news!
clarknet.clark.net!andy@network.ucsd.edu
Subject: Great "mod": HT & Speaker-mike
To: info-hams@ucsd.edu

For years I've been using HT's, often with external speaker-mikes.
Problem is, the HT has been awkward to handcarry, because I've never
found a good place to clip the mike. Until now. Finally, I found a way
to secure the mike to the radio, while still making it readily accessible.

Materials needed, from any hardware store:

- * Key ring, 1" diameter
- * 3" strip of 3/4" wide Velcro (tm), male & female. ;)

Instructions:

1. Remove clip from rear of speaker-mike. I had to drill it out.
2. Attach piece of Velcro to rear of mike, trimming off extra length.

(The mike mod is now complete, so let's move on to the HT itself)

3. Remove the silly little wrist strap, if any.
4. Attach the key ring thru the HT's wrist strap hole.
5. Remove backing from the other piece of 3" Velcro
6. Carefully loop the Velcro thru the key ring; fold over to create
a 1.5" tab, adhesive-to-adhesive, Velcro side out, of course. ;)

Your "mod" is now complete. Notice how when you pick up the HT, the
mike conveniently swings out of the way. Notice how easy it is
to "hang up" the mike when the HT is on your belt--you don't even have
to look. Well, it works for me! -k4adl

"Goodbye, and thanks for the radio," said Tom with a short wave.

Date: Sat, 04 Sep 93 15:18:53 GMT
From: netcomsv!bongo!skyld!janguis@decwrl.dec.com
Subject: iambic paddles, how to use them?
To: info-hams@ucsd.edu

In article <26503r\$cgq@charm.magnus.acs.ohio-state.edu> ksampanth@magnus.acs.ohio-
state.edu writes:

> i am a straight key user, and upgrading to a kent iambic paddle.
> since i have never used paddles seriously (atleast for cw ;-)),
> i would like to get the net wisdom on proper usage, and learning
> techniques for iambic keys.

PRACTICE PRACTICE PRACTICE and then some more

Amateur: WA6FWI@WA6FWI.#SOCA.CA.USA.NA		"It is difficult to imagine our
Internet: jangus@skyld.tele.com		universe run by a single omni-
US Mail: PO Box 4425 Carson, CA 90749		potent god. I see it more as a
Phone: 1 (310) 324-6080		badly run corporation."

Date: 5 Sep 93 09:20:01 GMT
From: news.service.uci.edu!orion.oac.uci.edu!easu348@network.ucsd.edu
Subject: Interesting amateur subject report on CNN
To: info-hams@ucsd.edu

I was just watching CNN's Headline News, and they did a report on ham radio operators volunteering to help out in a large arson investigation near Berkley. They did not talk too much about the workings of the investigation, but they did mention that 40 something volunteers were helping. One of the people that they showed was WB6HPA, Fred Leif. I just thought it was interesting.

--
Andrew Parker | KD6TGM | easu348@orion.oac.uci.edu

Date: 5 Sep 93 00:34:13 GMT
From: news-mail-gateway@ucsd.edu
Subject: Radio Shack HTXs
To: info-hams@ucsd.edu

Greetings to all on the net, wherever you may be:

I passed the Tech test about a month ago, and like ~90% of the other posters here (or so it seems, at times ;-), I am waiting for that envelope from the FCC.

I am NOT going to ask if I should call them, if (n, where 4<=n<=13) weeks is too long to wait, etc. I took the test in early August, and don't expect to see anything before sometime in late October, at the earliest.

I AM interested in knowing of anyone's experiences pro/con with the Radio Shack HTX HT's. Please, no flames about Radio Shack's attitude (although I find it hard to believe that they are charging \$2.95 for the new catalog). Since the HTX-202 is now on sale for \$199, I am seriously considering it as my first rig.

Also, is anyone aware of mods for these HTs? I checked the McGill FTP site, and also did an Archie search, but came up blank. I was wondering specifically about extended RX/TX for the HTX-202, as this would come in handy in my work as a volunteer firefighter.

Any information would be appreciated.

Thanks,

Tom Leber

N3??? (4 weeks, and expecting to wait about 8 more)

Tom Leber <leber@panther.warm.inmet.com> Intermetrics, Inc. Warminster PA
"One step ahead, one step behind...Pretty soon you gotta' run to stay even."

Date: Sun, 05 Sep 93 01:10:39 GMT
From: swrinde!cs.utexas.edu!math.ohio-state.edu!magnus.acs.ohio-state.edu!
cis.ohio-state.edu!mstar!n8emr!bulletin@network.ucsd.edu
Subject: VK2SG RTTY DX Notes, 3 September
To: info-hams@ucsd.edu

=====
| Automatic relayed from packet radio via |
| N8EMR's Ham BBS, 614-895-2553 |
=====

SB DX @ ALLBBS \$RTDX0903
VK2SG RTTY DX Notes, 3 September
VK2SG RTTY DX Notes for week ending 3 September 1993 (BID RTDX0903)

This week seems to have gone past very fast, with DXpeditions in various areas keeping everyone happy, or unhappy, as the case may be. Other trips are scheduled. Stay tuned.

Our information this week came from CE3GDN, ZS5S, 9X5LJ, W2JGR, WB2CJL, KE6XJ, I5ICY, SM5EIT, DJ3IW and the Central Eu DX-Cluster Node DB0SPC, and the NJ0M node of the Twin Cities DX Packet Cluster.

Bandpass:

Friday 27

0315-14083 VU2RAK
0511-14080 FR5DX
0905-21085 A45XC
1036-21083 UN5PR
1338-14088 HL9KU QSL N7NM
1333-14087 JT/JE7RJZ QSL JA7FWR
1501-14086 9M2DW
1545-14081 HP1XBH
1553-14088 VR2GC
1600-21085 9G1XA QSL K0EU
1703-21085 UM8MU
2120-21074 CN8NP ARQ
2307-14085 C06RR
2318-14091 EA8ATE
2352-14087 HK0DPA

Saturday 28

0029-14091 NP2EG
0030-14090 HC1SC
0653-14084 OM3LU
1214-14084 JT/JE7RJZ
1223-14083 9A1CCY
1246-14081 S51GL
1447-14088 SV5BYR
1515-21085 9G1XA QSX up
1800-21090 UM8MU
1842-14089 5B4XA
2010-14085 CN8CC
2036-14088 EA9UN
2125-14085 C6ANX
2312-14085 FM5GN
2336-14087 HK0DPA
2348-14083 KG4CW

Sunday 29

0049-14083 KG4CW
0547-14086 KP4SQ
0747-14087 SV5BYR
1255-21083 JT1/JE7RJZ
1428-14088 HI3AB
1612-21085 9G1XA
1622-14082 A45XC
1630-14087 UN5PR
1630-14081 VR2GO
1659-14088 9A3AM
1700-21087 4X6ZK
1712-14084 RI2B/UW9CX

1723-21084 UM8MU
1819-14087 VU2SJV
1925-21087 9Y4/N9FTC QSL N9FTC
1934-14084 9N1HL QSL DJ6JC
2058-21090TZ32JA
2205-21087 5K6P for pfx (Colombia)

Monday 30

0124-14088 NP2EG
0150-14089 UN5PR
0212-14087 F05EM
1322-14083 9N1HL
1511-140IU TA5C
1558-14085 OD5PL
1617-14086 9A3AM QSL Box 44 Dubrovnik 50000
1619-14082 JT1/JE7RJZ
1709-14085 LY1BZB
1739-14085 XX9AS
1746-14084 Z32GX
2029-14081 HV4NAC QSL IK0FVC
2047-14087 4X6U0
2149-14091 EA6PZ
2150-14087 OM3TLU
2302-14083 GJ3YHU

Tuesday 31

0007-14085 C06RR
0011-14088 NP2EG
0019-14088 C6ANX
0134-14085 UN8PFE
0147-14090 VE8MN Zone 1
0159-14085 RI2B/UW9CX QSL Box 146, Ekaterinburg, 620131 Russia
0540-14083 SV2ASP/A NOTE
0556-14083 KP4BJD
0735-21084 9N1HL
1146-14081 Z32JA
1200-14083 SV2ASP/A QSL SV2WT
1437-14084 JT1CS/3 QSL JR0CGJ
1600-14086 YB5QZ
1625-14086 VR2G0
1803-14087 4X6U0
1833-14087 UC20S
1956-14083 PJ2MI
2243-14084 4N7N
2246-14087 EA6PZ
2258-14083 SV5BYP

Wednesday 1

0046-14083 KG4CW
0056-14087 HR1RBB
0059-14088 UN5PR
0340-14081 FR5DX
0646-14083 KH6ACC
0737-14083 NL7ZH
1412-14083 EA6MH
1535-14087 BY1QH
1702-14084 U050CI
1850-14084 9N1HL
1943-14084 OM3LA
2124-14084 RA2FB
2131-14089 S51GL

Thursday 2

0043-14086 KL7IFP
0050-14084 9N1HL
0150-14085 C06RR
0329-14093 F05EM
0449-14083 7Q7LA
1157-14084 NP2EG
1212-14084 Z32JA
1254-14083 SV5BYP
1404-14084 KB9IBZ/JT3
1517-14086 LY2ZZ
1518-14082 VU2RAK
1604-14088 9A3AM
1607-14086 A45XC
1959-14085 3C1TR

Notes of Interest:

QSLs from HZ1AB. LEO, K8PYD informed Bob, WB2CJL that the logs for HZ1AB are contaminated on the computer file he receives, and he has no logs for 1993 with partial logs for 1992.

Nepal 9N1HL. If you still need this one, Heinrick DJ6JC will be in Katmandu til September 6.

Mount Athos. Monk Apollo came up again on the air on 31 Aug for testing, the first since Aug 23. The broken display was repaired on Aug 31, tnx to Nikos, SV2WT for the effort (thats the reason for the few QSOs). Minoru, JA3MNP left Mt. Athos on Aug 28 after completing the setup and the training on the RTTY equipment. Please be patient and listen carefully, since Apollo hasn't much free time and also there is generator problem.

Ghana 9G. Randy, K0EU (the AH1A RTTY operator) showed up from this

country with a good RTTY signal. He should be there for 2 or 3 weeks.
Look for him on 14085, 18105 and 21085, QSX up.

Fiji 3D2. JA2A0, JA2XW, JA2DHG, JA2IVY and JG2BRI will operate from
Mana Is., Fiji 160 thru 10 meters from Sept 23 to 30. They will be on
during the CQ WW RTTY Contest, maybe as 3D2VY. QSL via JR2KDN.

Send your bandpass and notes for next week to Bob,
WB2CJL @ CE3GDN.#STG.CHL.SA.

GL DE (DX2) Luciano, I5FLN @ ZS5S.ZAF.AF
/EX
SP KT7H @ N7DUO.WA.USA.NA

Date: 4 Sep 93 16:55:03 PDT
From: usc!nic.csu.net!computer_ctr.sonoma.edu!vannuysd@network.ucsd.edu
Subject: Wanted: Montana Sked
To: info-hams@ucsd.edu

Anyone out there in Montana who'd be willing to set up a sched for me
toward
W.A.S.? I'm fine on all bands, cw or phone. I mostly work 17 and 20 but
40 or 80 might be better given the skip. I have yet to even hear a
Montana station! Help!

Please send e-mail. Thanks.

David Van Nuys
KD6WKT
vannuysd@sonoma.edu

Date: 4 Sep 93 21:42:52 PDT
From: usc!nic.csu.net!computer_ctr.sonoma.edu!vannuysd@network.ucsd.edu
Subject: Wanted: Montana Skeds
To: info-hams@ucsd.edu

Anybody out there in Montana that would be willing to set up a sched with
me?
I am mostly on 17 and 20 meters, but am fine for 80, 40, or 15, as well.
I am trying to get WAS and have never heard Montana. Either cw or ssb
would be fine.

Help!!! Thanks.

David Van Nuys
KD6WKT
vannuysd@sonoma.edu

Date: 5 Sep 1993 01:38:41 -0400
From: usc!elroy.jpl.nasa.gov!avdms8.msfc.nasa.gov!europa.eng.gtefsd.com!
howland.reston.ans.net!noc.near.net!news.delphi.com!news.delphi.com!not-for-
mail@network.ucsd.edu
To: info-hams@ucsd.edu

References <1993Sep2.051554.28530@ke4zv.atl.ga.us>,
<1993Sep2.134100.26098@rsg1.er.usgs.gov>,
<1993Sep3.001902.3137@ke4zv.atl.ga.us>.com
Subject : Re: Non-licensed purchase of radio

This has come up on several occasions in the past regarding Radio Shack...they've said over and over that they will not sell a product to someone who indicates that they will be using it in an illegal manner. This has in the past included telephone recording adapters, Class A-verified computers (which aren't legal for use in a residential area), radar detectors (if the customer gives an address in a state that bans them) and of course transceivers other than the Part 15 variety.

Date: Fri, 3 Sep 1993 15:35:59 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!elroy.jpl.nasa.gov!swrinde!emory!wa4mei!
ke4zv!gary@network.ucsd.edu
To: info-hams@ucsd.edu

References <1993Sep2.134100.26098@rsg1.er.usgs.gov>,
<1993Sep3.001902.3137@ke4zv.atl.ga.us>, <1993Sep3.105149.1409@news.uiowa.edu>
Reply-To : gary@ke4zv.UUCP (Gary Coffman)
Subject : Re: Non-licensed purchase of radio

In article <1993Sep3.105149.1409@news.uiowa.edu> drenze@icaen.uiowa.edu (Douglas J Renze) writes:

>
>Hrm...question, though...and this is just my understanding of the law, so
>it may be flawed...I was under the impression that it wasn't illegal to *monitor*
>the 800-mHz (?) cellular band, just to use any info garnered for profit.
>
>Can anybody tell me for sure?

That's what the Communications Act of 1934 said. But now there's a new law called the ECPA, Electronic Communications Privacy Act, that

makes it a crime to even monitor the cellular frequencies. The FCC is now acting under mandate from Congress to make it illegal to manufacture, sell, or own a scanner that can, or can be modified to, receive the cellular frequency range. That goes into effect next year. This is a dramatic change in communications law.

Gary

--

Gary Coffman KE4ZV	"If 10% is good enough	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	for Jesus, it's good	uunet!rsiatl!ke4zv!gary
534 Shannon Way	enough for Uncle Sam."	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-Ray Stevens	

Date: 4 Sep 1993 20:20:54 GMT
From: nothing.ucsd.edu!brian@network.ucsd.edu
To: info-hams@ucsd.edu

References <263fd9\$ii5@usenet.INS.CWRU.Edu>, <CCqDJG.GrF@csn.org>, <31598@ksr.com>
Subject : Re: CB Linear for sale: How to report?

In 1974 thru 76, an electronics firm I worked for built and sold CB linears - at the time, it wasn't illegal to do so. At the peak of their popularity, they were shipping about THREE THOUSAND units a month. The competitors were doing about as well. At a rough guess, that makes it nearly literally true that "there's a million of them out there."

They were pretty-well-built items. I'd wager most of them are still around somewhere.

And we're arguing about ONE unit? Pthhht.

Me? I was the Data Processing Manager. Didn't touch the things. Just printed the bills for them.

- Brian

End of Info-Hams Digest V93 #1049
